Pekron Consulting
Environmental Health & Safety

SAMPLING FOR LEAD IN DRINKING WATER AS REQUIRED BY THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH

(20180621)

Conducted on June 15, 2018

at

PHILLIP J. ROCK CENTER AND SCHOOL
818 Dupage Boulevard
Glen Ellyn, IL 60137

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EXECUTIVE SUMMARY

Pekron Consulting, Inc. performed water sampling at the Phillip J. Rock Center and School located at 818 Dupage Boulevard Glen Ellyn, Illinois. The purpose of the sampling was to identify potential lead contamination in the school's drinking water. The State of Illinois requires schools and day care centers to test for lead in water used for drinking and cooking. Mr. Brian Rempert CIH, CSP, conducted the evaluation on June 15, 2018, with assistance from the building's staff.

Analytical results indicate that all ten (10) water source samples collected contained levels of lead ranging from non-detectible to 4.61. None of the water samples exceeded the Environmental Protection Agency's (EPA's) action level for lead which is set at 15 micrograms per liter of water (µg/L). Likewise, none of the water samples *exceeded* the Illinois Department of Public Health's (IDPH) requirements for levels of lead in drinking water of 5 parts per billion (ppb), or 5 µg/L.

The 4.61 µg/L result was from inside the kitchen at the lone sink tub located in the southwest corner of the kitchen. The water sample was collected from the "first draw." The second draw "flush" sample indicated lead levels that were non-detectable.

1.0 INTRODUCTION

Pekron Consulting, Inc. performed water sampling at the Phillip J. Rock Center and School located at 818 Dupage Boulevard Glen Ellyn, Illinois. The purpose of the sampling was to identify potential lead contamination in the school's drinking water. The State of Illinois requires schools and day care centers to test for lead in water used for drinking and cooking. Mr. Brian Rempert CIH, CSP, conducted the evaluation on June 15, 2018, with assistance from the building's staff.

2.0 BACKGROUND

The U.S. EPA has set national limits for hundreds of contaminants including lead in drinking water and specifies various treatments that water systems must use to remove these contaminants. Through the Safe Drinking Water Act (SDWA) of 1974, the EPA has limited the quantity of pollutants allowed in drinking water. Contaminants include microorganisms, metals, organic compounds, inorganic compounds, pesticides or herbicides, and radionuclides. As water travels over the surface of the land or through the ground, it can acquire naturally occurring mineral and can pick up substances resulting from the presence of animals or from human activity. Corrosion of plumbing systems can also affect the purity of drinking water. The U.S. EPA also sets Secondary Drinking Water Regulations which may cause cosmetic effects (skin and tooth discoloration) or aesthetic effects (such as taste or odor).

Providing safe drinking water to children is required by various agencies. Lead can cause a range of health issues including behavioral problems and learning disabilities, especially in young children. Routine testing of public drinking water detects if the water provided by the city is safe up to the building. However, lead can exist in old pipes and plumbing fixtures within the school. The State of Illinois has mandated the following schools and daycare centers test their water for lead:

1. Daycare facilities including group daycare centers and in-home daycare centers built before January 1, 2000, and that serve children under the age of six.

2. Public and private schools built before January 1, 200 and occupied by ten or more students pre-kindergarten through grade five.

3.0 MONITORING AND ANALYTICAL METHODOLOGY

Each facility is required to collect samples from every water source including taps, faucets, drinking fountains, and wash basins that could be used for drinking or preparation of food. This includes all classrooms, science labs, halls, cafeterias, kitchens, lounges, offices, gyms, locker rooms, athletic fields, etc. Bathroom sinks and janitorial wash basins are excluded. A "first draw" sample was obtained from each source, identified by the facility, after the water had been standing for 8-18 hours. Facility personnel were instructed to flush each source the day prior to sampling to insure this requirement was met. A second "flush" sample was collected after running the water for 30 seconds.

Samples were analyzed using an USEPA approved drinking water method by a certified drinking water lab (Appendix C).

Lead drinking water samples were collected using sterile plastic liter bottles. While filling, the bottle was tilted at an angle to allow the water to run down the inside of the container. When filled, the cap was secured and a label was affixed to the container. Care was taken not to overfill the container. Drinking water samples were delivered to an EPA accredited laboratory where they were analyzed according to method 200.8. (Appendix C)

4.0 RESULTS/CONCLUSION

Analytical results indicate that all ten (10) water source samples collected contained levels of lead ranging from non-detectible to 4.61. None of the water samples exceeded the Environmental Protection Agency's (EPA's) action level for lead which is set at 15 micrograms per liter of water (µg/L). Likewise, none of the water samples *exceeded* the Illinois Department of Public Health's (IDPH) requirements for levels of lead in drinking water of 5 parts per billion (ppb), or 5 µg/L.

The 4.61 µg/L result was from inside the kitchen at the lone sink tub located in the southwest corner of the kitchen. The water sample was collected from the "first draw." The second draw "flush" sample indicated lead levels that were non-detectable.

5.0 REPORTING REQUIREMENTS

The Illinois Department of Public Health (IDPH) has set forth the following reporting requirements:

1. Within 7 business days of receipt of test results, schools must email all results to IDPH at DPH.LeadH2O@illinois.gov.
2. If all sample results are less than 5ppb, schools may use their website (at a minimum) to notify parents of the results.
3. If any sample result exceeds 5ppb, schools must notify parents in writing or electronically, and include:
    a. The location and source exceeding 5ppb, and
    b. The USEPA website for information about lead in drinking water; https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water.

Brian Rempert

Brian Rempert, CIH, CSP

June, 2018
Date

APPENDIX A

Sample Results (Table)

RESULTS OF DRINKING WATER SAMPLES OBTAINED AT
PHILLIP J. ROCK CENTER AND SCHOOL
818 DUPAGE BOULEVARD
GLEN ELLYN, ILLINOIS
JUNE 15, 2018

Sample No.	Location / Source Type	Sampling Time	1st Draw Lead Results (µg/L)	2nd Draw Lead Results (µg/L)
001	Cafeteria Sink	9:40 am	ND	
002				ND
003	Kitchen – Right Double Sink Tub	9:45 am	ND	
004				ND
005	Kitchen – Left Double Sink Tub	9:47 am	ND	
006				ND
007	Kitchen – Lone Sink Tub (SW Corner of Kitchen)	9:50 am	4.61	
008				ND
009	Kitchen – Hand Washing Sink	9:52 am	ND	
010				ND

ND – None Detected
µg/L – micrograms / Liter
U.S. EPA Action Level for Lead is 0.015 mg/L (15µg/L)
IDPH Action Level for Lead is 5 ppb, or 5 µg/L
Note: All of the sources tested had been unused for a minimum 8 hours and a maximum of 18 hours.

APPENDIX B

Laboratory Results

First
Environmental
Laboratories, Inc.
IL ELAP / NELAC Accreditation # 100292
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

Case Narrative

PEKRON CONSULTING

Lab File ID: **18-3352**

Project ID: **20180621 PO# 20500**

Date Received: **June 15, 2018**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Sample Identifier	Location Description	Type	Date/Time Collected
18-3352-001	Cafeteria Sink	Cafeteria	FDRW	6/15/2018 9:40
18-3352-002	Cafeteria Sink	Cafeteria	FLSH	6/15/2018 9:42
18-3352-003	Right Double Sink Tub	Kitchen	FDRW	6/15/2018 9:45
18-3352-004	Right Double Sink Tub	Kitchen	FLSH	6/15/2018 9:46
18-3352-005	Left Double Sink Tub	Kitchen	FDRW	6/15/2018 9:47
18-3352-006	Left Double Sink Tub	Kitchen	FLSH	6/15/2018 9:47
18-3352-007	Lone Sink Tub	Kitchen	FDRW	6/15/2018 9:50
18-3352-008	Lone Sink Tub	Kitchen	FLSH	6/15/2018 9:50
18-3352-009	Hand Washing Sink	Kitchen	FDRW	6/15/2018 9:52
18-3352-010	Hand Washing Sink	Kitchen	FLSH	6/15/2018 9:53

Sample Batch Comments:

Sample acceptance criteria were met.

Method Comments

Lab Number	Sample ID	Comments:
18-3352-007	Lone Sink Tub	*Total Metals* Result was confirmed by re-analysis.

First Environmental Laboratories, Inc.

IL ELAP / NELAC Accreditation # 100292

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Case Narrative

#Error

Lab File ID: **#Error**

Project ID: **#Error**

Date Received: **#Error**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: PEKRON CONSULTING
Project ID: 20180621 PO# 20500

Date Received: 06/15/18
Date Reported: 06/18/18

Lab No:	Sample ID:	Analyte		Result	R.L.	Units	Flags
Total Metals		**Method: 200.8R5.4**		**Preparation Method DW**			
18-3352-001	Cafeteria Sink		Date Collected: 06/15/18	Time Collected: 9:40			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-002	Cafeteria Sink		Date Collected: 06/15/18	Time Collected: 9:42			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-003	Right Double Sink Tub		Date Collected: 06/15/18	Time Collected: 9:45			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-004	Right Double Sink Tub		Date Collected: 06/15/18	Time Collected: 9:46			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-005	Left Double Sink Tub		Date Collected: 06/15/18	Time Collected: 9:47			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-006	Left Double Sink Tub		Date Collected: 06/15/18	Time Collected: 9:47			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-007	Lone Sink Tub		Date Collected: 06/15/18	Time Collected: 9:50			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**4.61**	2.00	**ug/L**	
18-3352-008	Lone Sink Tub		Date Collected: 06/15/18	Time Collected: 9:50			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-009	Hand Washing Sink		Date Collected: 06/15/18	Time Collected: 9:52			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	
18-3352-010	Hand Washing Sink		Date Collected: 06/15/18	Time Collected: 9:53			
Analysis Date:	06/18/18			Preparation Date: 06/18/18			
		Lead		**<2.00**	2.00	**ug/L**	

APPENDIX C

Laboratory Accreditation

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

FIRST ENVIRONMENTAL LABORATORIES, INC.

1600 SHORE ROAD, SUITE D

NAPERVILLE, IL 60563

NELAP ACCREDITED

ACCREDITATION NUMBER #100292

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Celeste M. Crowley
Acting Manager
Environmental Laboratory Accreditation Program

John South
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 004324
Expiration Date: 02/28/2019
Issued On: 02/27/2018

State of Illinois
Environmental Protection Agency

Certificate No.: 004324

Awards the Certificate of Approval to:

First Environmental Laboratories, Inc.
1600 Shore Road, Suite D
Naperville, IL 60563

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

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FOT Name: Drinking Water, Inorganic

Method: SM2130B,21Ed

Matrix Type: Potable Water

Turbidity

Method: SM2320B,21Ed

Matrix Type: Potable Water

Alkalinity

Method: SM2340B,21Ed

Matrix Type: Potable Water

Hardness

Method: SM2340C,21Ed

Matrix Type: Potable Water

Hardness

Method: SM2510B,21Ed

Matrix Type: Potable Water

Conductivity

Method: SM2540C,21Ed

Matrix Type: Potable Water

Total Dissolved Solids

Method: SM4500Cl-G,21Ed

Matrix Type: Potable Water

Chlorine (Free, Combined, Total)

Method: SM4500F-C,21Ed

Matrix Type: Potable Water

Fluoride

Method: SM4500H-B,21Ed

Matrix Type: Potable Water

Hydrogen Ion (pH)

Method: SM4500NO2-B,21Ed

Matrix Type: Potable Water

State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval

Certificate No.: 004324

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Naperville, IL 60563

FOT Name: Drinking Water, Inorganic

Matrix Type: Potable Water

Method: SM4500P-E,21Ed

Matrix Type: Potable Water

Orthophosphate

Method: SM4500SiO2-C,21Ed

Matrix Type: Potable Water

Silica

Method: SM5310C,21Ed

Matrix Type: Potable Water

Total Organic Carbon (TOC)

Method: USEPA200.7R4.4

Matrix Type: Potable Water

Aluminum
Barium
Cadmium
Chromium
Hardness (calc.)
Magnesium
Nickel
Silver
Zinc

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Lead

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA335.4R1.0

Matrix Type: Potable Water

Cyanide

Method: USEPA353.2R2.0

Matrix Type: Potable Water

Nitrate

Method: USEPA375.2R2.0

Method: SM4500NO2-B,21Ed

Nitrite

Arsenic
Beryllium
Calcium
Copper
Iron
Manganese
Silica
Sodium

First Environmental Laboratories, Inc.
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Naperville, IL 60563

FOT Name: Drinking Water, Inorganic

Method: USEPA375.2R2.0

Matrix Type: Potable Water

Sulfate

FOT Name: Non Potable Water, Inorganic

Method: SM2120C,2001

Matrix Type: NPW

Color

Method: SM2130B,2001

Matrix Type: NPW

Turbidity

Method: SM2310B,1997

Matrix Type: NPW/SCM

Acidity

Method: SM2320B,1997

Matrix Type: NPW/SCM

Alkalinity

Method: SM2340B,1997

Matrix Type: NPW/SCM

Hardness

Method: SM2340C,1997

Matrix Type: NPW/SCM

Hardness

Method: SM2510B,1997

Matrix Type: NPW

Specific conductance

Method: SM2540B,1997

Matrix Type: NPW/SCM

Residue (Total)

Method: SM2540C,1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D,1997

Matrix Type: NPW

Residue (TSS)

Method: SM3500Cr-B,2009

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FOT Name: Non Potable Water, Inorganic — **Method: SM3500Cr-B,2009**

Matrix Type: NPW/SCM

Chromium VI

Method: SM4500Cl⁻-C,1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500CL⁻-E,1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500Cl-G,2000

Matrix Type: NPW/SCM

Chlorine, Free Available — Chlorine, Total Residual

Method: SM4500CN-E,1999

Matrix Type: NPW/SCM

Cyanide

Method: SM4500CN-G,1999

Matrix Type: NPW/SCM

Cyanide, Available

Method: SM4500F-C,1997

Matrix Type: NPW/SCM

Fluoride

Method: SM4500H-B,2000

Matrix Type: NPW/SCM

Hydrogen ion (pH)

Method: SM4500NO2-B,2000

Matrix Type: NPW

Nitrite

Method: SM4500P-E,1999

Matrix Type: NPW/SCM

Orthophosphate — Phosphorus

Method: SM4500S2-D,2000

Matrix Type: NPW/SCM

Sulfide

Method: SM4500SiO2-C,1997

Matrix Type: NPW/SCM

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FOT Name: Non Potable Water, Inorganic

Matrix Type: NPW/SCM

Method: SM5210B,2001

Matrix Type: NPW/SCM

Biochemical oxygen demand (BOD)

Method: SM5220D,1997

Matrix Type: NPW/SCM

Chemical Oxygen Demand (COD)

Method: SM5310C,2000

Matrix Type: NPW/SCM

Total Organic Carbon (TOC)

Method: USEPA1664B

Matrix Type: NPW/SCM

Oil & Grease

Method: USEPA200.7,1994

Matrix Type: NPW/SCM

Aluminum
Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Molybdenum
Nickel
Potassium
Selenium
Silica
Silver
Sodium
Thallium
Tin
Titanium
Vanadium
Zinc

Method: USEPA245.1R3.0,1994

Matrix Type: NPW/SCM

Mercury

Method: USEPA335.4R1.0,1993

Matrix Type: NPW/SCM

Method: SM4500SiO2-C,1997

Silica

Carbonaceous Biochemical Oxygen Demand (CBOI

First Environmental Laboratories, Inc.
1600 Shore Road, Suite D
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FOT Name: Non Potable Water, Inorganic

Matrix Type: NPW/SCM

Method: USEPA350.1R2.0,1993

Matrix Type: NPW/SCM

Ammonia

Method: USEPA351.2R2.0,1993

Matrix Type: NPW/SCM

Total Kjeldahl Nitrogen

Method: USEPA353.2R2.0,1993

Matrix Type: NPW/SCM

Nitrate

Method: USEPA375.2R2.0,1993

Matrix Type: NPW

Sulfate

Method: USEPA420.1,1978

Matrix Type: NPW/SCM

Phenolics

Method: USEPA420.4R1.0,1993

Matrix Type: NPW/SCM

Phenolics

Method: USEPA335.4R1.0,1993

Cyanide

Nitrate-nitrite (as N)

FOT Name: Non Potable Water, Organic

Method: USEPA608

Matrix Type: NPW/SCM

4,4'-DDD	4,4'-DDE
4,4'-DDT	Aldrin
alpha-BHC	beta-BHC
Chlordane	delta-BHC
Dieldrin	Endosulfan I
Endosulfan II	Endosulfan sulfate
Endrin	Endrin aldehyde
gamma-BHC (Lindane)	Heptachlor
Heptachlor epoxide	Methoxychlor
PCB-1016	PCB-1221
PCB-1232	PCB-1242
PCB-1248	PCB-1254

First Environmental Laboratories, Inc.
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Naperville, IL 60563

FOT Name: Non Potable Water, Organic

Matrix Type: NPW/SCM

Toxaphene

Method: USEPA624

Matrix Type: NPW/SCM

1,1,1-Trichloroethane
1,1,2-Trichloroethane
1,1-Dichloroethene
1,2-Dichloroethane
1,3-Dichlorobenzene
2-Chloroethylvinyl ether
Acrolein (Propenal)
Benzene
Bromoform
Carbon tetrachloride
Chloroethane
Chloromethane
Dibromochloromethane
Ethylbenzene
Tetrachloroethene
trans-1,2-Dichloroethene
Trichloroethene
Vinyl chloride

Method: USEPA625

Matrix Type: NPW/SCM

1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
2,2-Oxybis (1-chloropropane)
2,4,6-Trichlorophenol
2,4-Dimethylphenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chloronaphthalene
2-Methyl-4,6-dinitrophenol
3,3'-Dichlorobenzidine
4-Chloro-3-methylphenol

Method: USEPA608

PCB-1260

1,1,2,2-Tetrachloroethane
1,1-Dichloroethane
1,2-Dichlorobenzene
1,2-Dichloropropane
1,4-Dichlorobenzene
Acetonitrile
Acrylonitrile
Bromodichloromethane
Bromomethane
Chlorobenzene
Chloroform
cis-1,3-Dichloropropene
Dichloromethane (Methylene chloride)
Methyl tert-butyl ether (MTBE)
Toluene
trans-1,3-Dichloropropene
Trichlorofluoromethane
Xylenes (total)

1,2-Dichlorobenzene
1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dichlorophenol
2,4-Dinitrophenol
2,6-Dinitrotoluene (2,6-DNT)
2-Chlorophenol
2-Nitrophenol
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether

First Environmental Laboratories, Inc.
1600 Shore Road, Suite D
Naperville, IL 60563

FOT Name: Non Potable Water, Organic

Matrix Type: NPW/SCM

Method: USEPA625

Acenaphthene	4-Nitrophenol
Anthracene	Acenaphthylene
Benzo(a)anthracene	Benzidine
Benzo(b)fluoranthene	Benzo(a)pyrene
Benzo(k)fluoranthene	Benzo(g,h,i)perylene
Bis(2-chloroethoxy) methane	Benzyl butyl phthalate
Bis(2-ethylhexyl) phthalate	Bis(2-chloroethyl) ether
Dibenz(a,h)anthracene	Chrysene
Dimethyl phthalate	Diethyl phthalate
Di-n-octyl phthalate	Di-n-butyl phthalate
Fluorene	Fluoranthene
Hexachlorobutadiene	Hexachlorobenzene
Hexachloroethane	Hexachlorocyclopentadiene
Isophorone	Indeno(1,2,3-cd) pyrene
Nitrobenzene	Naphthalene
N-Nitrosodi-n-propylamine	N-Nitrosodimethylamine
Pentachlorophenol	N-Nitrosodiphenylamine
Phenol	Phenanthrene
	Pyrene

FOT Name: Solid and Chemical Materials, Inorganic

Method: 1010A

Matrix Type: NPW/SCM

Ignitability

Method: 1311

Matrix Type: NPW/SCM

TCLP (Organic and Inorganic)

Method: 1312

Matrix Type: NPW/SCM

Synthetic Precipitation Leaching Procedure

Method: 6010C

Matrix Type: NPW

Silica

Matrix Type: NPW/SCM

Aluminum	Antimony

First Environmental Laboratories, Inc.
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Naperville, IL 60563

FOT Name: Solid and Chemical Materials, Inorganic

Method: 6010C

Matrix Type: NPW/SCM

Barium
Boron
Calcium
Cobalt
Iron
Magnesium
Molybdenum
Potassium
Silver
Strontium
Tin
Vanadium

Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Manganese
Nickel
Selenium
Sodium
Thallium
Titanium
Zinc

Method: 7196A

Matrix Type: NPW/SCM

Chromium VI

Method: 7470A

Matrix Type: NPW

Mercury

Method: 7471B

Matrix Type: SCM

Mercury

Method: 9014

Matrix Type: NPW/SCM

Cyanide

Method: 9034

Matrix Type: NPW/SCM

Sulfides

Method: 9038

Matrix Type: SCM

Sulfate

Method: 9040C

Matrix Type: NPW

Hydrogen Ion (pH)

State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval

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Naperville, IL 60563

FOT Name: Solid and Chemical Materials, Inorganic — **Method: 9045D**

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9060A

Matrix Type: NPW

Total Organic Carbon (TOC)

Method: 9065

Matrix Type: NPW/SCM

Phenolics

Method: 9066

Matrix Type: NPW

Phenolics

Method: 9071B

Matrix Type: SCM

Oil and Grease Extractable

Method: 9095B

Matrix Type: NPW/SCM

Paint Filter

FOT Name: Solid and Chemical Materials, Organic

Method: 8011

Matrix Type: NPW

1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (EDB)

Method: 8081A

Matrix Type: NPW/SCM

4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
alpha-BHC
alpha-Chlordane
beta-BHC
Chlordane - not otherwise specified
delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
gamma-BHC (Lindane)
gamma-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

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FOT Name: Solid and Chemical Materials, Organic **Method: 8082**

Matrix Type: NPW/SCM

PCB-1016	PCB-1221
PCB-1232	PCB-1242
PCB-1248	PCB-1254
PCB-1260	

Method: 8260B

Matrix Type: NPW

1,4-Dioxane

Matrix Type: NPW/SCM

1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane
1,1-Dichloroethane	1,1-Dichloroethene
1,1-Dichloropropene	1,2,3-Trichlorobenzene
1,2,3-Trichloropropane	1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)
1,2-Dichlorobenzene	1,2-Dichloroethane
1,2-Dichloropropane	1,3,5-Trimethylbenzene
1,3-Dichlorobenzene	1,3-Dichloropropane
1,4-Dichlorobenzene	1-Propanol
2,2-Dichloropropane	2-Butanone (Methyl ethyl ketone, MEK)
2-Chloroethyl vinyl ether	2-Chlorotoluene
2-Hexanone	2-Methyl-1-propanol (Isobutyl alcohol)
2-Nitropropane	2-Propanol (Isopropyl alcohol)
4-Chlorotoluene	4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBk
Acetone	Acetonitrile
Acrolein (Propenal)	Acrylonitrile
Allyl chloride	Benzene
Bromobenzene	Bromochloromethane
Bromodichloromethane	Bromoform
Bromomethane	Carbon disulfide
Carbon tetrachloride	Chlorobenzene
Chlorodibromomethane (Dibromochloromethane)	Chloroethane
Chloroform	Chloromethane
cis-1,2-Dichloroethene	cis-1,3-Dichloropropene
Dibromomethane	Dichlorodifluoromethane

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FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Method: 8260B

- Ethyl acetate
- Ethyl methacrylate
- Hexachlorobutadiene
- Isopropylbenzene
- Methyl acrylate
- Methyl iodide (Iodmethane)
- Methyl-t-butyl ether
- Naphthalene
- n-Butylbenzene
- o-Xylene
- p-Isopropyltoluene
- p-Xylene
- Styrene
- Tetrachloroethene
- Toluene
- trans-1,3-Dichloropropene
- Trichloroethene
- Vinyl acetate
- Xylenes (Total)
- Dichloromethane (Methylene chloride)
- Ethyl ether
- Ethylbenzene
- Hexachloroethane
- Methacrylonitrile
- Methyl ethyl ketone
- Methyl methacrylate
- m-Xylene
- n-Butanol
- n-Propylbenzene
- Pentachloroethane
- Propionitrile (Ethyl Cyanide)
- sec-Butylbenzene
- tert-Butylbenzene
- Tetrahydrofuran
- trans-1,2-Dichloroethene
- trans-1,4-Dichloro-2-butene
- Trichlorofluoromethane
- Vinyl chloride

Method: 8270C

Matrix Type: NPW/SCM

- 1,2,4,5-Tetrachlorobenzene
- 1,2-Dichlorobenzene
- 1,3,5-Trinitrobenzene (1,3,5-TNB)
- 1,3-Dinitrobenzene (1,3-DNB)
- 1,4-Dioxane
- 1,4-Phenylenediamine
- 2,2-Oxybis (1-chloropropane)
- 2,4,5-Trichlorophenol
- 2,4-Dichlorophenol
- 2,4-Dinitrophenol
- 2,6-Dichlorophenol
- 2-Acetylaminofluorene
- 2-Chlorophenol
- 1,2,4-Trichlorobenzene
- 1,2-Diphenylhydrazine
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,4-Naphthoquinone
- 1-Naphthylamine
- 2,3,4,6-Tetrachlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrotoluene (2,4-DNT)
- 2,6-Dinitrotoluene (2,6-DNT)
- 2-Chloronaphthalene
- 2-Methylnaphthalene

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FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Method: 8270C

- 2-Naphthylamine
- 2-Nitrophenol
- 3,3'-Dimethylbenzidine
- 3-Nitroaniline
- 4-Aminobiphenyl
- 4-Chloro-3-methylphenol
- 4-Chlorophenyl phenyl ether
- 4-Nitroaniline
- 5-Nitro-o-toluidine
- Acenaphthene
- Acetophenone
- Anthracene
- Benzo(a)anthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzyl alcohol
- Bis(2-chloroethyl) ether
- Butyl benzyl phthalate
- Chlorobenzilate
- Diallate
- Dibenzofuran
- Dimethoate
- Di-n-butyl phthalate
- Diphenylamine
- Ethyl methanesulfonate
- Fluoranthene
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- Hexachlorophene
- Indeno(1,2,3-cd) pyrene
- Isophorone
- Kepone
- Methyl methanesulfonate
- Methylpyrilene
- 2-Methylphenol
- 2-Nitroaniline
- 3,3'-Dichlorobenzidine
- 3-Methylcholanthrene
- 4,6-Dinitro-2-methylphenol
- 4-Bromophenyl phenyl ether
- 4-Chloroaniline
- 4-Methylphenol
- 4-Nitrophenol
- 7,12-Dimethylbenz(a)anthracene
- Acenaphthylene
- Aniline
- Benzidine
- Benzo(a)pyrene
- Benzo(g,h,i)perlyene
- Benzoic acid
- Bis(2-chloroethoxy) methane
- Bis(2-ethylhexyl) phthalate
- Carbazole
- Chrysene
- Dibenz(a,h)anthracene
- Diethyl phthalate
- Dimethyl phthalate
- Di-n-octyl phthalate
- Disulfoton
- Famphur
- Fluorene
- Hexachlorobutadiene
- Hexachloroethane
- Hexachloropropene
- Isodrin
- Isosafrole
- m-Cresol (3-Methylphenol)
- Methyl parathion
- Naphthalene

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FOT Name: Solid and Chemical Materials, Organic

Matrix Type: NPW/SCM

Method: 8270C

- Nitroquinoline-1-oxide
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosomethylethylamine
- N-Nitrosopiperidine
- O,O,O-Triethyl phosphorothioate
- o-Toluidine
- p-Cresol (4-Methylphenol)
- Pentachloronitrobenzene
- Phenacetin
- Phenol
- Pronamide
- Pyridine
- Thionazine (Zinophos)
- Nitrobenzene
- N-Nitrosodiethylamine
- N-Nitrosodi-n-butylamine (N-Nitrosodibutylamine)
- N-Nitrosodiphenylamine
- N-Nitrosomorpholine
- N-Nitrosopyrrolidine
- o-Cresol (2-Methylphenol)
- Parathion
- Pentachlorobenzene
- Pentachlorophenol
- Phenanthrene
- Phorate
- Pyrene
- Safrole